Ethan Kupka

BA-Programmer with hands-on experience in programming, controller migrations, and system integration. Seeking to leverage my CS degree and field experience for a company, looking to gain resilience and innovative solutions to their team.

Portfolio: **https://elkshot.netlify.app** | GitHub: **https://github.com/ekupka1**

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TECHNICAL SKILLS

- **BAS Tools:** Workbench, EasyIO, Niagara Framework
- **Programming:** Ladder Logic, Function Block Programming, BAS Scripting, HTML, CSS, Python, SQL
- **HVAC Controls:** VAVs, FCUs, sensors, actuators, control panels
- **Other:** Preventive maintenance, customer training, system migrations

WORK EXPERIENCE

Controlled Air, Branford Ct. — *Building Automation Technician*
May 2024 - Dec 2025

- Migrated legacy **FX-60 controllers** to **FX-80/90** and transitioned BAS systems to **EasyIO controllers**.
- Programmed **clean ladder logic**, organized naming conventions, and built efficient folder structures.
- Installed and wired **actuators, sensors, thermostats, and space heaters**, including large-scale wire pulls.
- Delivered **end-user training** on Controls software and supported troubleshooting.

Department of CS, Cornell College. — *Student Worker*
Sept 2022 - May 2023

- Successfully deployed VM images (**VMWare**) on physical **servers** and leveraged troubleshooting skills to remediate issues.

PROJECTS

Side-Effects *(Entrepreneurial Project, Lacrosse String Company)*

- Founded Side-Effects, a lacrosse stringing company, managing product design, branding, e-commerce setup, and social media growth.

AirCast Big Data Final *(Big Data Coding Project)*

- Developed using Python and Spark, my group plotted the locations of every aircraft on a 3D graph. I developed the filtering portion of the code to sort through the big data.

SERVICE EXPERIENCE

Student Athletic Advisory Council, Mt. Vernon IA. — *Committee Member*
Aug 2020 - May 2023

- Participate in hands-on event planning for over 300 student-athletes.

Lacrosse Team Member, Mt. Vernon IA. — *Athlete*
Aug 2019 - May 2023

- Participate in community service through teaching lacrosse to local middle and 20-30 high school students every other weekend to spread the joy of lacrosse.

C4 Club, Mt. Vernon IA. — President(2022-Present), *Vice President(2021), Secretary(2020)*
Aug 2020 - May 2023

- Create and distribute content using Google Suite apps on a weekly basis to our club members.

EDUCATION

Cornell College, Mt. Vernon IA
Bachelors in Computer Science, Minor in Russian
GPA: 3.30/4.0

LANGUAGE EXPERIENCE

- HTML, CSS, Sass
- JavaScript, Python
- jQuery, SQL

AUTOMATION & CONTROLS

- Block Programming
- Ladder Logic
- CCT, CPT
- Workbench, Honeywell
- Power Tools & Multimeter

DESIGN TOOLS

- GIMP, Photoshop
- Figma, Inkscape
- Blender

FRAMEWORKS & TOOLS

- Bootstrap, Netlify
- Terminal, Git Bash, Linux
- PostgreSQL

CERTIFICATIONS

- Advanced Google Analytics
- Google Analytics for Beginners
- Google Tag Manager Fundamentals
- Introduction to Data Studio

PERSONAL INTERESTS

- Learning Carpentry
- Playing Semi-Pro Box lacrosse
- Making Art (Graphic Design)
- Practicing Martial Arts